KB

KINGBOARD LAMINATES LTD

5/F., Block K, Valiant Industrial Centre, 2-12 Au Pui Wan St., Fo Tan, Shatin, N.T., Hong Kong.

TEL : (852) 2605 6493 FAX : (852) 2691 5245 / 2691 0445

TECHNICAL INFORMATION

KB-6150

KB-6150 is glass fabric based epoxy resin copper clad laminate, which could be processed into single/double sided printed circuit board or core for multilayer printed circuit board. It has good performances in flame resistance and dimensional stability.

Type	Grade	Construction
KB-6150	ANSI (NEMA) FR-4	Glass fabric, Copper foil, Epoxy resin

Features

- **Excellent dimensional stability**
  Small dimension and thickness changes after heated could warrant precise positioning of circuits and improve the reliability of PTH.
- **Excellent heat and moisture resistance**
  Ion-migration is effectively minimized in hot and humid environment avoiding the occurrence of measling.
- **Excellent thickness uniformity**
  Excellent thickness uniformity improves surface mounting precision which is propitious especially to the thickness control in multilayer PCB.

Standard Configuration

- **Thickness : 0.1mm – 3.2mm (IPC-4101 Class B)**
- **Copper Cladding : 18μm, 35μm , 70μm**
- **Regular Size (mm) : 914 x 1220, 1020 x 1220, 1041 x 1245, 1067 x 1220**
- **Other Size : As specified by customers**

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General Properties

Properties	Unit	Test Condition	IPC-4101 Testing Method	IPC-4101 Requirement	Typical Value
Flexural Strength	Kg/m^2	Lengthwise Crosswise	2.4.4	above 4.23×10^7 above 3.52×10^7	5.58×10^7 4.54×10^7
Peel Strength (1 oz)	Kg/cm	A	2.4.8	above 1.43	2.0
Glass Transition (Tg)	°C	E2 / 105 DSC	2.4.25	above 130	135
Flammability	Sec	E24 / 23	2.3.10	Average Burn <= 5 Max Burn <= 10	1.6 7
Thermal Stress	Sec	Float 288°C	2.4.13.1	Above 20	above 180
Surface Resistance	MΩ	C96/35/90	2.5.17.1	Above 1.0×10^4	1.0×10^7
Volume Resistivity	MΩ-cm	C96/35/90	2.5.17.1	Above 1.0×10^6	1.0×10^9
Permittivity	—	Etched/@1MHZ	2.5.5.3	Less than 5.4	4.6
Loss Tangent	—	Etched/@1MHZ	2.5.5.3	Less than 0.035	0.02
Moisture Absorption	%	D24/23	2.6.2.1	Less than 0.5	0.1

Remarks: Typical values for reference only.